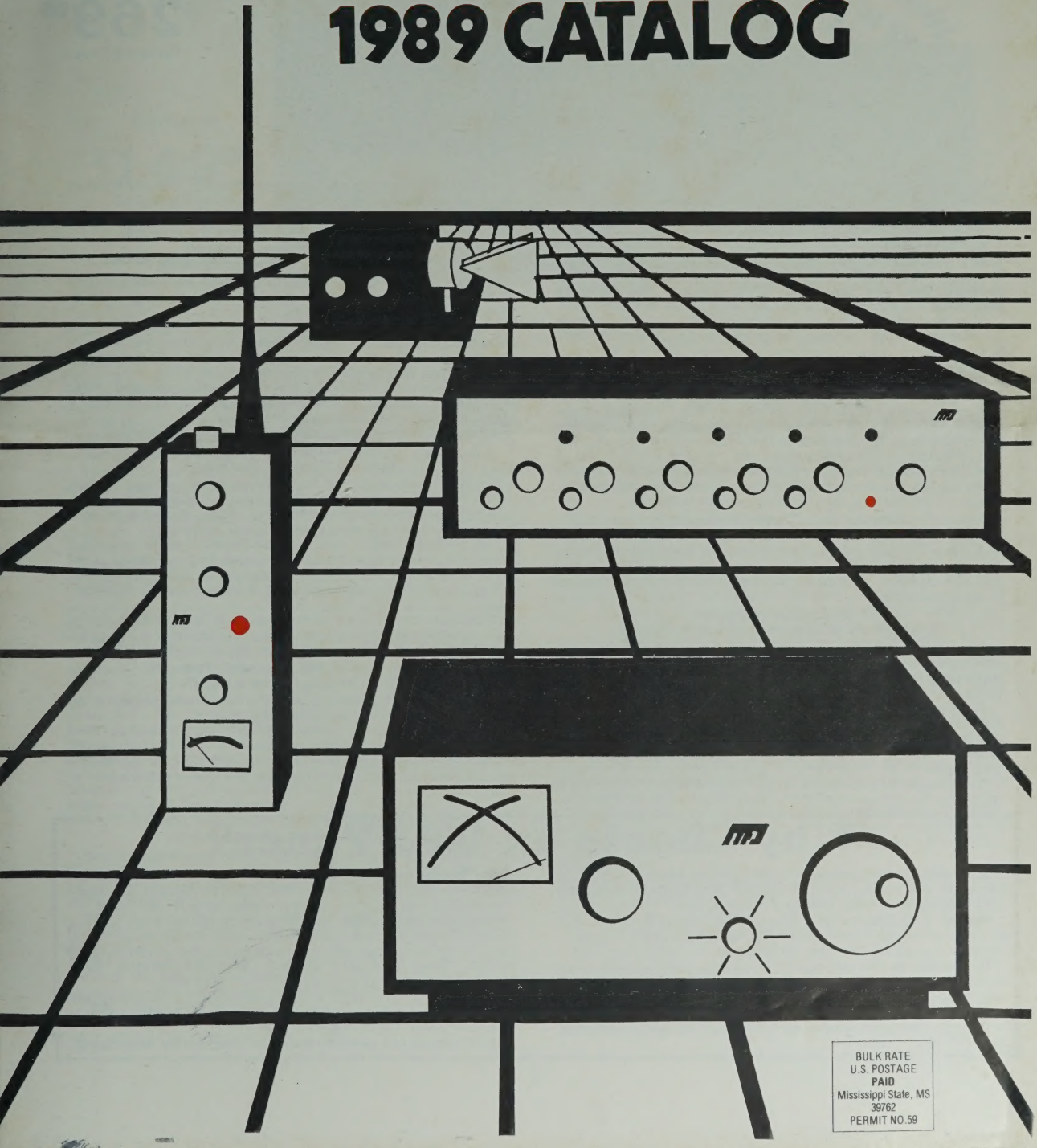
MFJ ENTERPRISES, INC.

1989 CATALOG



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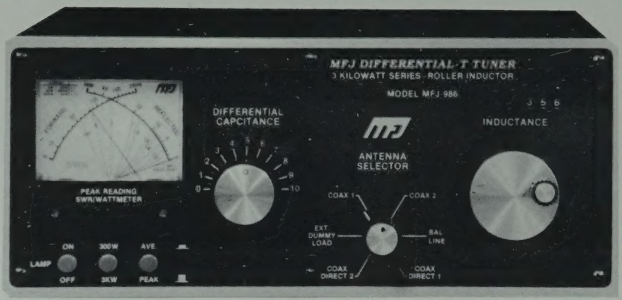
PERMIT NO.59

MFJ 3 KW Roller Inductor Tuner

. . . lets you get your SWR down to *absolute* minimum -- something a tapped inductor tuner just can't do . . .

. . . *plus* you get a ***peak* reading** Cross-Needle SWR/Wattmeter, 6-position antenna switch, balun for balanced lines and 1.8-30 MHz coverage...$239.95



MFJ-986

$269.95

Shipping Code E

MFJ's innovative new Differential-T Tuner™ uses a differential capacitor that makes tuning foolproof and easier than ever. It ends constant re-tuning with broadband coverage and gives you minimum SWR at only *one* setting.

The new MFJ-986 is a rugged no-compromise 3 KW PEP Roller Inductor antenna tuner that covers 1.8-30 MHz continuously, including MARS and all the WARC bands. **The roller inductor lets you tune your SWR down to the absolute minimum** -- something a tapped inductor tuner just can't do.

A 3-digit turns counter plus a spinner knob gives you *precise* inductance control -- so you can quickly return to your favorite frequency.

You get a lighted Cross-Needle meter that not only gives you SWR, forward and reflected power at a glance -- but also gives you a **peak-reading** function! A new directional coupler gives you even more accurate readings over a wider frequency range.

You get a 6-position ceramic antenna switch that lets you select two coax lines and/or random wires (direct or through tuner), balanced line and external dummy load.

A new **current** balun for balanced lines minimizes feedline radiation that causes field pattern distortion, TVI and RF in your shack.

New Antenna Tuner Technology

MFJ brings you **three innovations** in antenna tuner technology: a new *Differential-T*™ circuit simplifies tuning; a new *directional coupler* gives you more accurate SWR, forward and reflected power readings; and a new *current balun* reduces feedline radiation.

Differential-T Tuner™: A New Twist on a Proven Technology

By replacing the two variable capacitors with a single *differential capacitor* **you get a wide range T-network tuner with only *two* controls** -- the differential capacitor and a roller inductor.

That's how you get the new MFJ Differential-T Tuner™ that makes tuning easier than ever, gives you minimum SWR at only one setting and has a broadband response that ends constant re-tuning. You'll spend your time QSOing instead of fooling with your tuner.

The compact 10¾ x 4½ x 15 inch cabinet has plenty of room to mount the silver-plated roller inductor away from metal surfaces for maximum Q -- you get high efficiency and more power into your antenna.

The wide spaced air gap differential transmitting capacitor lets you run a full 3 KW PEP -- no worries about arcing.

A New Directional Coupler: Accurate SWR and Power Reading

MFJ's Cross-Needle SWR/Wattmeter gives you more accurate SWR and power readings over a wider frequency range with no frequency sensitive adjustments.

That's because MFJ's new directional coupler gives you up to an order of magnitude higher directivity and coupling factor than conventional circuits . . . *plus* it gives you a flat frequency response that requires **no** frequency compensation.

The cross-needle meter lets you read forward/reflected power in 2 ranges: 200/50 and 2000/500 watts. The meter lamp is front-panel switched and requires 12 volts.

A switch lets you select peak or average power readings.

A New Current Balun: Reduces Feedline Radiation

Nearly all commercially built tuners use a "voltage" balun, which forces the *voltages* to be equal on the two antenna halves. It minimizes unbalanced currents *only* if the antenna is perfectly balanced -- not the case with practical antennas.

The MFJ-986 uses a true **current balun** to force equal *currents* into the two antenna halves -- *even* if your antenna is not perfectly balanced -- so you get minimum unbalanced currents.

The *current* balun gives superior balance over the "voltage" balun.

MInimum unbalanced current reduces field pattern distortion -- which concentrates your power for a stronger signal --*plus* it reduces TVI and RF in your shack due to feedline radiation.

The MFJ-986 Differential-T Tuner™: Get *absolute minimum* SWR

Get the tuner that incorporates the latest innovations by the world's leader in antenna tuner technology.

See your dealer today for the new MFJ-986 Differential-T™ 3 KW Roller Inductor Tuner.

MFJ wants to thank Boyce A. Taylor, W5GZM, for sharing his idea for using a differential capacitor in a T-network tuner.

Why Choose an MFJ Tuner?

Hard-earned Reputation: There's just no shortcut. *MFJ is a name you can trust* -- more hams trust MFJ tuners throughout the world than all other tuners combined.

Proven Reliability: *MFJ has made more tuners for more years than anyone else* -- with MFJ tuners you get a highly-developed product with proven reliability.

First-rate Performance: MFJ tuners have earned their reputation for being able to match just about anything -- *anywhere.*

One full year *unconditional* guarantee: That means we will repair or replace your tuner (at our option) *no matter what* for a full year.

Continuing Service: MFJ Customer Service Technicians are available to help you keep your MFJ tuner performing flawlessly -- no matter how long you have it -- just call 601-323-5869.

Your very best *value:* MFJ tuners give you the most for your money. Not only do you get a *proven* tuner at the lowest cost -- you also get a one year *unconditional* guarantee and *continuing* service. That's how MFJ became the world's leading tuner manufacturer -- by giving *you* your very best *value.*

Choose your MFJ tuner with confidence! You're getting proven performance and reliability from the most trusted name in antenna tuners. Don't settle for less.

MFJ Tuners are proudly made in America by Americans.

MFJ's *Best* 300 Watt Tuner

. . . MFJ's *best* Versa Tuner II uses *two continuously* variable capacitors so you get more precise matches and lower SWR than with *any* tuner that uses two tapped inductors

. . . plus you get MFJ's lighted two-color Cross-Needle SWR/Wattmeter, 6-position antenna switch, balun for balanced lines, 50 ohm 300 watt dummy load and continuous 1.8 to 30 MHz coverage -- all in a compact cabinet that fits right into your station

MFJ-949C

$149.95

Shipping Code B

Made in U.S.A.

The MFJ-949C gives you more precise matches than any tuner that uses two tapped inductors. Why? Because you get two *continuously* variable capacitors that give you infinitely more positions than the *limited* number on switched coils.

This gives you the precise control you need to get your SWR down to a minimum. After all, isn't that why you need a tuner?

Here's what you get with MFJ's *best* 300 watt tuner

You get an MFJ tuner that has earned a reputation for being able to match just about anything -- one that is highly perfected and has years of *proven* reliability.

You get a 2-color, lighted Cross-Needle SWR/Wattmeter that gives you SWR, forward and reflected power -- all at a single glance!

You get a built-in 300 watt 50 ohm dummy load for quick tune ups and a built-in 4:1 balun for balanced feedlines.

You get an extremely versatile 6-position antenna switch for selecting 2 coax lines (direct or through tuner), random wire or balanced line and dummy load.

Plus . . . a highly efficient airwound inductor gives you plenty of matching range and less losses for more power out into your antenna, 1000-volt tuning capacitors and heavy duty switches to give you arc-free no worries operation; you get a beautiful black all aluminum cabinet with a brushed aluminum front panel and a compact (10 x 3 x 7 inches) size that fits right into your station. Under many conditions you get a bandpass characteristic that attenuates harmonics.

You can run up to 300 watts PEP RF output and match coax, balanced lines or random wires *continuously* from 1.8 through 30 MHz. Use it to tune out SWR on dipoles, vees, long wires, verticals, whips, beams and quads.

High efficiency *and* a compact size *performance* is most important

You get maximum efficiency *and* a compact size because the MFJ-949C uses only *one* airwound coil with a large diameter. Using only one coil takes up a minimum of space and there's no mutual coupling problems.

The excellent form factor of the short fat coil gives you highest Q. Plus you get plenty of inductance for the widest matching range possible.

The airwound inductor is mounted vertically and centered between the two variable capacitors as far from metal surfaces as possible with the bottom end grounded to the cabinet.

This results in a highly efficient tuner that puts maximum power into your antenna *and* a compact size that complements your rig and fits right into your station.

Tuners using *two* tapped inductors *need* a large cabinet not just to house the coils but also to help reduce coupling between the inductors.

What's really important

What's really important is a tuner's ability to get your SWR down to a minimum. The two *continuously* variable capacitors in the MFJ-949C give you the *precise* control you need for minimum SWR. Plenty of inductance gives you the widest matching range possible.

Full one year *unconditional* guarantee

You get a *full one year unconditional guarantee.* That means we will repair or replace your tuner (at our option) *no matter what* for a full year.

You also get continuing service. MFJ Customer Service Technicians are available to help you keep your MFJ tuner performing flawlessly -- no matter how long you have it.

How can an American manufacturer like MFJ give you more tuner for your money than clearing houses for foreign competition?

MFJ is an efficient vertically integrated manufacturing company using modern state-of-the-art equipment -- not just an assembly or clearing house for foreign manufacturers. MFJ tuners are proudly made in America by Americans.

Here are some reasons why MFJ can give you more tuner for your money than any of the competition.

A state-of-the-art metal working facility builds every tuner cabinet and other metal parts. It includes several computer controlled punch presses as well as painting and silk screening departments.

MFJ manufactures, assembles and tests every printed circuit board that goes into MFJ tuners. Our PC board manufacturing facility includes computer controlled drilling and wave soldering equipment.

All MFJ tuner instruction manuals and other printed materials are printed in MFJ's offset printing facility which includes advanced Compugraphics phototypesetting equipment.

The MFJ-949C performance record: precise control for minimum SWR

Get the tuner that gives you two *continuously* variable capacitors so you'll get more precise control for minimum SWR and more power into your antenna.

The MFJ-949C gives you your very best value, first-rate performance and proven reliability from the most trusted name in antenna tuners. Don't settle for less. Get yours today!

MFJ's *world famous* 3 KW Versa Tuner V

If you won't settle for less . . . here is the finest 3 KW tuner money can buy!

MFJ-989C

$349.95

Shipping Code E

Quite frankly, the MFJ-989C is not for everyone. And not everyone can afford it.

However, if you do make the investment, you'll get the finest 3 KW tuner money can buy.

The MFJ-989C is the perfect example of the old adage, "you get what you pay for."

For example, you get two massive transmitting capacitors that can pass amps of RF current. These variable capacitors can withstand 6000 RF volts with ease because they have the smooth polished plates and extra wide air gaps between plates. By beveling both the stator and rotor plates, you get an absolute minimum capacitance when the plates are fully unmeshed. This minimum and 250 pf maximum gives you an extremely wide matching range -- even on 160 and 10 Meters -- so you can match just about any antenna.

A roller inductor lets you tune your SWR down to the absolute minimum -- something a tapped inductor tuner just can't do. A 3-digit turns counter plus a spinner knob give you precise inductance control -- so you can return to your favorite frequency.

You won't have arcing problems with this roller inductor. That's because firm springs put considerable pressure on a silver plated contact wheel. This gives you excellent electrical contact with the roller inductor wire and eliminates any arcing problem. By using more space between turns at low inductance, you get smooth inductance control at high frequencies. Wide low inductance straps are used for high current connections. A new core gives you excellent RF properties for minimum loss. Ball bearings on both the front and back shafts give you a velvet smooth vernier feel. Steel end plates, steel shafts and ceramic insulators give you lifetime durability.

This High-Q roller inductor is mounted horizontally and centered vertically away from metal surfaces to maintain highest Q for maximum efficiency so you'll get full power out.

With *three* ***continuously*** variable components -- two variable capacitors and a roller inductor -- you get the widest matching range possible *and* the most precise control over SWR possible. You can tune your SWR down to the absolute minimum from 1.8 to 30 MHz, including MARS and all the WARC bands. Plus you have complete control over Q. You can select a low Q when you want convenient broadband coverage or select high Q when you need an extra measure of harmonic attenuation -- it's your choice.

You get a new *peak and average* reading Cross-Needle SWR/Wattmeter with 200 and 2000 watt ranges. It makes tuning quick and easy because you can monitor forward and reflected power and SWR all in a single glance. Its new directional coupler gives you accurate SWR and power readings over the entire 1.8 through 30 MHz range and there's no frequency sensitive adjustments to get out of whack.

You get a super heavy duty balun for balanced lines. It's made with two giant 2½ inch ferrite toroid cores and wound with teflon wire connected to high voltage ceramic feedthru insulators. It lets you operate high power into balanced feedlines without core saturation and voltage breakdown.

You get a two wafer ceramic antenna switch with extra large switch contacts to eliminate plugging and unplugging. It lets you select two coax antennas direct or through the tuner, balanced line or random wire and dummy load.

You also get a built-in 50 ohm 300 watt dummy load that makes exciter tuning fast and easy.

And there are small touches too. Like high voltage ceramic feedthru insulators for balanced lines and random wires. Aluminum cabinet with sub chassis that adds strength and RFI protection. Brushed aluminum front panel. Beautiful knobs with brushed aluminum inserts. Lighted meter with on/off switch (requires 12 volts). A locking compound is used on all nuts and bolts that hold components in place. A flip stand that tilts the tuner for your easy viewing.

It fits right into your station because it's a compact 10¾ x 4½ x 15 inches -- it puts all your operating controls in front of you.

You get a **one year *unconditional guarantee.*** That means we will repair or replace your tuner (at our option) no matter what for a full year. You can also rely on continuing service from MFJ Customer Service Technicians -- no matter how long you have it.

The MFJ-989C is not for everyone but if you want the finest 3 KW tuner that money can buy -- one that will give you a lifetime of use, one that takes the fear out of high power operation and one that lets you get your SWR down to the absolute minimum -- then the MFJ-989C **is** for you. Don't settle for less . . . get *yours* today!

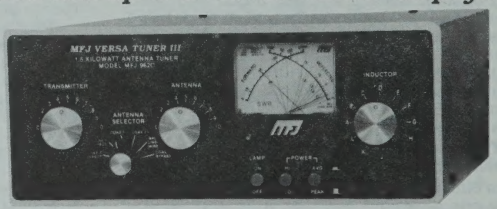
MFJ's *1.5 KW* Versa Tuner III

lets you use your barefoot rig now and add up to a 1.5 KW linear amplifier later

MFJ-962C

$229.95

Shipping Code E



Why settle for a 300 watt tuner when a *few* extra dollars lets you step up to the more powerful 1500 watt MFJ-962C?

Two *continuously* variable capacitors give you the precise control you need to get your SWR down to a minimum. Plenty of inductance gives you the widest matching range possible.

A new ***peak*** and average reading Cross-Needle SWR/Wattmeter makes tuning quick and easy. At *one* glance you can read SWR, forward and reflected power. A new directional coupler gives you more accurate readings over a wider frequency range and has no frequency sensitive adjustments. Meter light requires 12 volts.

A 6-position ceramic antenna switch lets you select 2 coax line (direct or through tuner), random wire and balanced lines -- no more plugging and unplugging.

For balanced feedlines, a heavy duty 4:1 balun is built-in. It's made with *two* giant 2½ inch ferrite cores, wound with teflon wire and connected to ceramic feedthru insulators -- it lets you operate high power into balanced feedlines without core saturation and voltage breakdown.

A high voltage *ceramic* inductor switch with widely spaced switch contacts and two 6 KV variable capacitors take the fear out of high power operation.

For highest Q *and* the most compact size, the wide range air-wound inductor is mounted horizontally away from metal surfaces for efficiency and maximum power into your antenna.

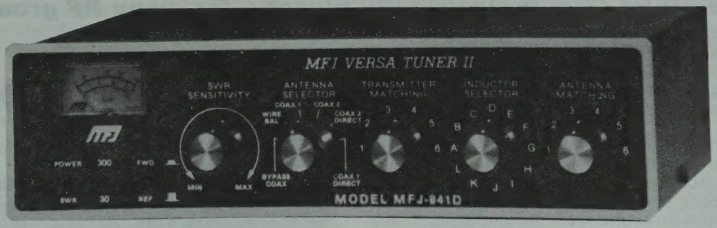
It fits right into your station because it's a compact 10¾ x 4½ x 14 7/8 inches -- it puts all the operating controls in front of you.

Why not spend a few extra dollars for a *lot more* power. Get the most for your money. Step up to the powerful MFJ-962C today.

MFJ's *Fastest Selling* Versa Tuner II

you get antenna switch, built-in balun and SWR/Wattmeter with this super tuner that matches everything continuously from 1.8 to 30 MHz

Best buy!



MFJ-941D
$109.95
Shipping Code B

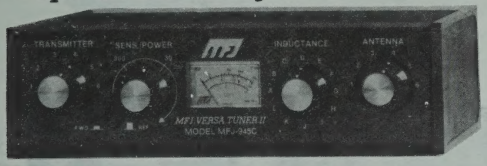
The MFJ-941D is MFJ's fastest selling 300 Watt PEP antenna tuner! Why? Because it has more features than tuners costing much more and it matches everything continuously from 1.8-30 MHz.

It matches dipoles, vees, verticals, mobile whips, random wires, balanced and coax lines.

SWR/Wattmeter reads forward and reflected power in 30 and 300 watt ranges. Front panel mounted antenna switch selects 2 coax lines, direct or through tuner, random wire/balanced line or tuner bypass. Efficient 12 position air-wound inductor gives lower losses and more watts out. Has 4:1 balun. 1000 volt capacitors. A beautiful black aluminum cabinet with black brushed aluminum front panel matches your rig perfectly and fits right into your station. It measures just 10½ x 2 7/8 x 7 inches.

MFJ's *Mobile* Tuner

- ***Dual range SWR/Wattmeter***
- ***Operate all bands from 1.8 to 30 MHz***



MFJ-945C
$89.95
Shipping Code B

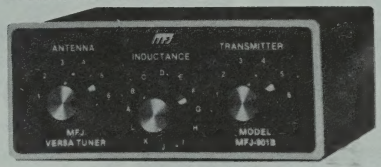
Don't leave home without this *mobile* tuner! Have an uninterrupted trip as the MFJ-945C extends your antenna bandwidth and eliminates the need to stop, go outside and readjust your mobile whip. It lets you run a full 300 watts PEP.

Small 8 x 2 x 6 inch black aluminum cabinet uses little room. The SWR/Wattmeter reads power in both 300 and 30 watt ranges. The convenient placement of controls makes tuning fast and easy while in motion.

Back panel has binding posts for random wire and balanced line, SO-239 connectors for transmitter and coax and a wing nut post for your ground. Efficient airwound inductor gives you less losses and more watts out. 1000 volt capacitors. 4:1 balun. Use it at home in your station when you're not in your RV or car. **Mobile mount, MFJ-20, $3.00.** Add $2.00 shipping for bracket alone.

MFJ's *smallest* Versa Tuner

- ***Operate all bands from 1.8 to 30 MHz***
- ***Built-in 4:1 balun***



MFJ-901B
$59.95
Shipping Code A

The MFJ-901B is our smallest -- 5 x 2½ x 6 inches -- (and most affordable) 200 watt PEP Versa tuner -- when both your space *and* your budget is limited.

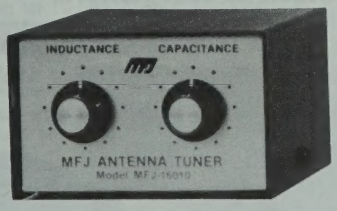
You can operate anywhere in a band and get low SWR. You'll get maximum power out of your solid state or tube rig and it'll run cooler and last longer.

It Matches dipoles, vees, random wires, verticals, mobile whips, beams, balanced and coax lines continuously 1.8-30 MHz. Excellent for matching solid state rigs to linears. Efficient airwound inductor gets more watts out than a toroid.

You get SO-239 connectors for transmitter and coax, binding posts for random wire, balanced lines and a wing-nut ground connection. A 4:1 balun for balanced lines is also built into this sturdy, compact tuner. Works with solid state and tube rigs. Fits into your station and your car. Matches your rig.

MFJ's *Random Wire* Tuner

- ***Operates all bands from 1.8 to 30 MHz***
- ***Take it anywhere ultra compact size***



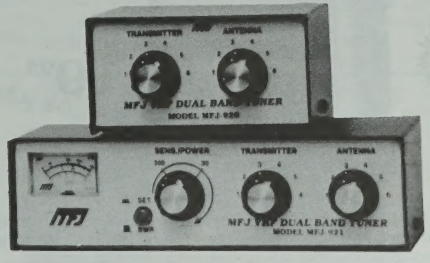
MFJ-16010
$39.95
Shipping Code A

Operate all bands - anywhere with any transceiver - using a random wire and an antenna tuner small enough to carry in your hip pocket. Ultra compact 2 x 3 x 2 inches.

Operate from your apartment with a wall to wall antenna or from a motel room with a wire dropped from a window. Throw a wire over a tree and enjoy ham radio on a camping or backpacking trip. Be prepared for an emergency: keep it ready in your glove box. Take it on a DX-pedition or Field Day.

Handles up to 200 watts RF output. Match low and high impedances by interchanging input and output. Has SO-239 connectors.

MFJ's *Dual Band VHF* Tuners



MFJ-920
$49.95
Shipping Code A

MFJ-921
$69.95
Shipping Code A

Get the new MFJ-921 *Dual Band VHF* tuner that covers both 2 meters and the 220 MHz bands and you also get the convenient built-in VHF SWR/Wattmeter. MFJ-921 handles 300 watts PEP and matches impedances from 5-600 ohms. It is excellent for mobile and base operation. SO-239 input/output connectors and wing nut post for your ground. Egshell white and black aluminum cabinets. One year ***unconditional*** guarantee.

MFJ-921 has a built-in SWR/Wattmeter and measures 8 x 2½ x 3 inches. MFJ-920 measures 4 ½ x 2 ½ x 3 inches.

MFJ-931 Artificial RF Ground

Create an artificial RF ground with the new MFJ-931! It effectively places your rig near actual earth ground potential even if your rig is on the second floor or higher with no earth ground possible! Also, it electrically places a far away RF ground at your rig.

How's your RF ground? Do you have RF "hot spots" that "bite" you when you transmit? Do you have RF feedback that causes your rig to quit working on some bands? Do you have TVI/RFI that makes your neighbors hard to live with? Do you get weak signal reports because of extreme ground losses or radiation pattern distortion?

These problems could be caused by poor RF grounding, especially if your rig is on a second floor with no ground at all. Even if you have a good ground, a long connection wire can ruin its effectiveness by isolating true RF ground from your rig.

The new MFJ-931 creates an artificial RF ground! It resonates a random length of wire thrown along the floor and produces a tuned counterpoise. This artificial ground effectively places your rig near actual earth ground potential even if your rig is on the second floor or higher with no earth ground possible.

Also, the MFJ-931 electrically places a far away RF ground directly at your rig -- no matter how far away it is. The MFJ-931 reduces the electrical length of the ground connection wire to virtually zero by tuning out its reactance.

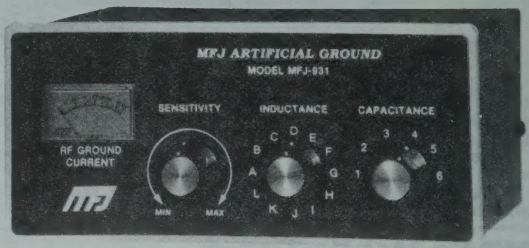
The MFJ-931 connects between your rig and a random length of wire or a connecting ground wire. It's tuned for maximum ground current using the built-in RF ammeter. It covers 1.8 to 30 MHz and measures 7½ x 3½ x 7 inches.

NEW

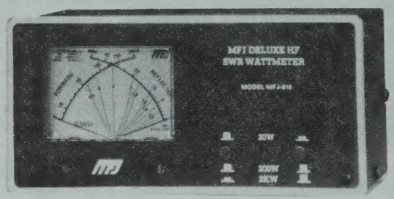
MFJ-931

$79.95

Shipping Code A



Cross-Needle SWR/Wattmeter



MFJ-815

$69.95

Shipping Code A

This MFJ-815 Cross Needle SWR/Wattmeter lets you monitor SWR, forward and reflected power at a single glance and it's quality made here in the USA by MFJ.

Read average forward and reflected power in 3 ranges (20/200/2000 watts forward and 2/20/200 watts reflected) and SWR from 1:1 to 6:1 on a 2 color scale. Works from 1.8 to 30 MHz. Accuracy is ± 10% full scale. Mechanical zero adjustment for meter movement.

Easy push button range selection. Rugged aluminum black cabinet with brushed aluminum front. SO-239 connections. Meter light requires 12 VDC or optional AC adapter, MFJ-1312, $9.95. 6½ x 3¼ x 4¼ inches.

HF or VHF SWR/Wattmeters

MFJ-812B

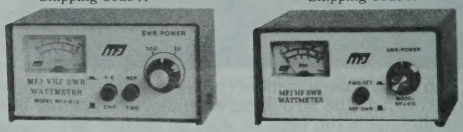
$29.95

Shipping Code A

MFJ-816

$29.95

Shipping Code A



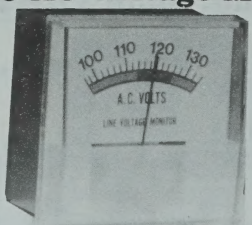
The MFJ-816 HF/SWR Wattmeter reads SWR from 1.8 to 30 MHz to monitor antenna and feedlines. Toroidal current pickup for uniform sensitivity.

Read forward and reflected power on 2 scales (30 and 300 watts). Easy push-button operation. Has forward/reflected push button. Sturdy all aluminum egg-shell white and black cabinet. SO-239 connectors. 2 color meter scale. 4½ x 2¼ x 3 inches.

MFJ-812B, $29.95. SWR Wattmeter for VHF from 144-220 MHz. Read forward and reflected power and SWR in 2 ranges (300/30 watts) and read relative field strength from 1-170 MHz. Two color meter. Same size as MFJ-816.

MFJ-850 AC Voltage Monitor

NEW



MFJ-850

$19.95

Shipping Code A

The new MFJ-850 Line Voltage Monitor is the easiest protection you can get against low voltage "brown-out" conditions that can damage your expensive electrical equipment.

All you have to do is plug it in and it tells you at a glance when your line voltage is at a low "brown out" level. Color coding of the safe range makes across the room reading easy.

Just plug it into any AC outlet for a continuous, accurate reading from 95 - 135 volts. ±2% accuracy.

Leave it plugged in permanantly for constant monitoring -- it comes with MFJ's unmatched one year unconditional guarantee. 2¼H x2¼W x 1½D inches.

You can use it anywhere -- at home, in your shack, on a boat or in an RV. Also useful to check tempory set-ups, portable generators or your valuable computer and periphiral set up.

New MFJ-850 is the kind of little investment that can prevent big trouble later. Get one now.

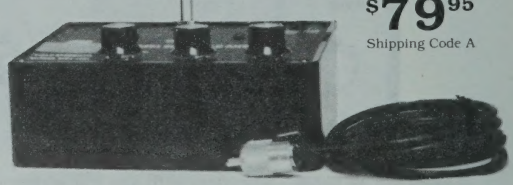
MFJ Portable Antenna

Work 40 through 10 Meters with this amazing desk-top antenna that can let you work stations everywhere!

MFJ-1621

$79.95

Shipping Code A



The MFJ-1621 Portable Antenna lets you operate in almost any electrically free area, an apartment, a campsite, a resort hotel, even at the beach. It lets you work **40, 30, 20, 15, and 10 meters** by using a telescoping whip antenna that extends to **54 inches.** The antenna is mounted on a self-standing 6 x 3 x 6 inch cabinet. It also features a built-in antenna tuner, field strength meter and 50 feet of RG-58 coax cable.

The MFJ-1621 is *the* complete portable antenna system. It can be used in practically any location. Just place the antenna in an electircally clear location, set the bandwidth, tune the capacitor for maximum field strength and operate!

4-position Antenna Switch with Lightning Protection

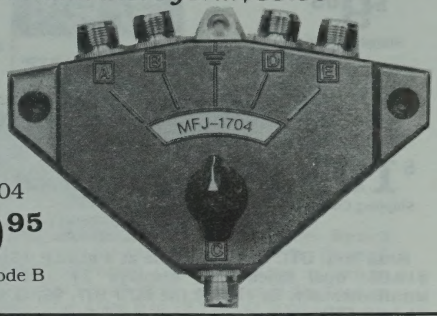
New MFJ-1704 has lightning/surge protection with replacable protector, center ground position, heavy-duty cast-iron housing, ball-bearing drive and more for...$59.95

Mount this 4-position SO-239 switch on your operating desk and you'll have more than the convenience of being able to instantly select any of 4 antennas or the center ground position -- you'll also get peace of mind because its replacable automatic lightning protector helps take the fear out of thunderstorms.

It handles a full 1.5 KW PEP and with extremely low SWR. Isolation is rated from better than 60 dB at 30 MHz to better than 50dB isolation at 500 MHz. Negligible insertion loss. 50 ohm.

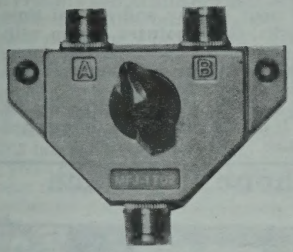
Construction is solid both inside and out. Inside you get metal strip wiring that prevents chafing or shorting problems. Outside is the beautiful heavy steel cavity case that'll stand up through the years. You also get a heavy duty spring loaded ball bearing switch. Unused positions are automatically grounded.

Your rig has hundreds, even thousands, of critical solid state parts. If just one is damaged by power surges or lightning you could lose the use of your rig while it is being repaired.



MFJ-1704
$59.95
Shipping Code B

Heavy Duty Coax Switch



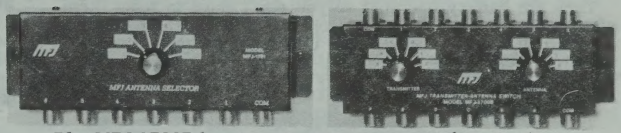
MFJ-1702
$21.95
Shipping Code A

The MFJ-1702 2-Position Coaxial Switch is for 50 ohm systems. It can handle 2.5KW PEP, 1KW CW. It has better than 60 db isolation at 300 MHz and better than 50 db at 450 MHz. The unused terminal is automatically grounded for static/lightning/RF protection. It has low insertion loss, less than 0.2 db and SWR below 1:1.2. The MFJ-1702 has heavy cavity type construction and uses SO-239 connectors. 3 x 2 x 2 inches.

Antenna/Tranceiver Switches

MFJ-1701
$34.95
Shipping Code A

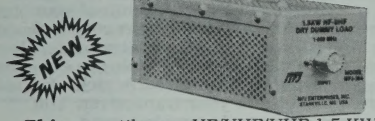
MFJ-1700B
$64.95
Shipping Code B



The MFJ-1700B has two ceramic rotary switches that let you select 1 of 6 antennas *and* 1 of 6 transceivers in any combination. You can also plug in an antenna tuner, SWR/Wattmeter, linear, etc., so they are always in the circuit. Handles 2KW PEP for 50-75 ohm loads. Unused terminals grounded. 14 SO-239 connectors. Black, aluminum cabinet. 10 x 3 x 1½ inches.

MFJ-1701, $29.95. Six position Antenna only switch. SO-239 connectors . Unused terminals grounded automatically. Handles 52-75 ohm loads, 2 KW SSB, 1 KW CW.

1.5 KW HF/VHF/UHF Compact "Dry" Dummy Load



MFJ-264
$109.95
Shipping Code A

This versatile new HF/VHF/UHF 1.5 KW "Dry" Dummy Load is another MFJ first! It lets you tune up to 650 MHz and get extremely low SWR. Save your high frequency transmitter finals!

You can run 100 watts for 10 minutes, 1500 watts for 10 seconds. The voltage gradient is 10 kV/inch. SWR 1.1:1 at 30 MHz, below 1.3:1 to 650 MHz. Measures 3 x 3 x 7 inches. It comes with MFJ's one year unconditional guarantee.

"Dry" 300 W and 1 KW Dummy Loads

MFJ-260
$28.95
Shipping Code A

MFJ-262
$69.95
Shipping Code A

Air cooled, non-inductive 50 ohm resistor in perforated metal housing with SO-239 connectors. Full load for 30 seconds, derating curves to 5 minutes. **MFJ-260 (300 W).** SWR: 1.1:1 to 30 MHz, 1.5:1 for 30-60 MHz. 2½ x 2½ x 7 inches. **MFJ-262 (1 KW).** SWR 1.5:1-30 MHz. 3 x 3 x 3 inches.

MFJ-10, 3 foot coax with connectors, $4.95.

VERSALOAD KW Dummy Load

Complete with oil

MFJ-250
$49.95
Shipping Code A

MFJ-250 *VERSALOAD* kilowatt dummy load lets you tune up fast. Extends life of transmitter final. Reduces on-the-air QRM. Run 1 KW CW or 2 KW PEP for 10 minutes, ½ KW CW or 1 KW PEP for 20 minutes. Continuous duty with 200 watts or 400 watts PEP. Complete with derating curve. Quality 50 ohm non-inductive resistor. Oil cooled. Includes high quality industrial grade transformer oil (contains NO PCB). Low VSWR to 400 MHz. Under 1.2:1, 0-30 MHz. 1.5:1, 30-300 MHz. 2:1, 300-400 MHz. Ideal for testing HF and VHF transmitters. **SO-239 coax connector.** Vented for safety. Removable vent cap. Carrying handle. 7½ high x 6 5/8 inches diameter.

Mobile Antenna Matcher

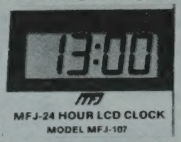
MFJ-910
$19.95
Shipping Code A

This MFJ compact Mobile Antenna Matcher lowers your SWR and provides more power into your mobile whip. For solid signals and more QSOs. Your solid state rig puts out more power and generates less heat.

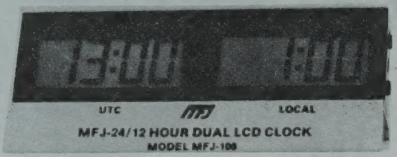
Matches mobile antennas from 10 through 80 meters. Great for vacation ham operators. Easy plug-in installation. Compact size fits anywhere. 2½ x 2½ x 1½ inches.

MFJ 12/24 Hour LCD Clocks

MFJ-107B
$9.95
Shipping Code A



MFJ-108B
$19.95
Shipping Code A



Read both UTC and local time at a glance with the MFJ-108, $19.95, dual clock that displays 24 and 12 hour time simultaneously. Or choose the MFJ-107, $9.95 single clock for 24 hour UTC time.

Both are mounted in a brushed aluminum frame, feature **huge, easy-to-see 5/8 inch LCD numerals** and a sloped face that makes across-the-shack reading easy and pleasant.

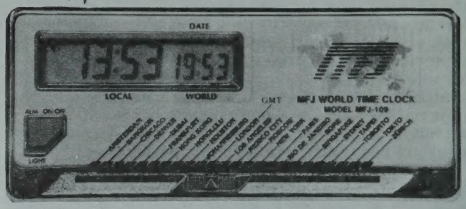
You can read hour, minuteand second. You can also synchronize them to WWV for split-second timing. Both are quartz controlled for excellent accuracy.

They are battery operated so you don't have to reset them after a power failure, and battery operation makes them suitable for mobile and portable use. Long life battery included. MFJ-108, 4½ x 1 x 2 inches; MFJ-107, 2¼ x 1 x 2 inches.

MFJ World Time Clock

NEW

MFJ-109
$19.95
Shipping Code A



The new MFJ-109 World Time Clock shows GMT and local time -- and it displays the time for 24 world cities.

Just set the Easy-slide indicator to any of 24 international cities and its dual display instantly shows you both the local time and the time in the city you choose.

It features international 24 hour display and a local time display with 3/8 inch LCD digits, **GMT pointer,** alarm with snooze, night light, adjustment for daylight savings time, international date change indicators, suede-like carrying case and and a flip stand -- all in an attractive gift box.

It measures 2x4½x½inches and fits in your shirt pocket for portable access to world time. It comes with MFJ's unmatched one year unconditional guarantee.

MFJ RX Noise Bridge

MFJ-202B
$59.95
Shipping Code A

World's finest noise bridge! Hand calibrated resistance scale, expanded capacitance range (± 150 pf), built-in range extender gives accurate measurements and extended measuring range, 1-100 MHz. Very easy to use to find out about your antenna.

The MFJ-202B Noise Bridge lets you quickly adjust your single or multi-band dipole, inverted vee, beam, vertical, mobile whip or random wire for maximum performance. Tells resonant frequency and whether to shorten or lengthen your antenna for minimum SWR over any portion of a band. MFJ-202B works with any receiver or transceiver. 4¼ x 4½ x 2 inches.

MFJ Cordless Phone Interface

MFJ-630
$39.95
Shipping Code A

NEW

Use your cordless phone to operate your HF rig **remotely!**

Wouldn't it be fun to operate the HF transceiver as you relax in your living room or lawn chair?

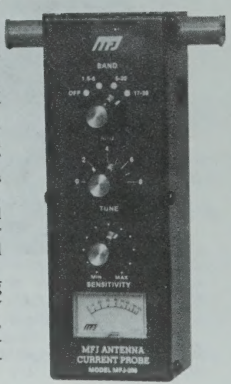
MFJ's new cordless phone interface lets you use your cordless phone to remotely operate your rig!

For remote operation, you simply plug the base unit of your cordless phone and the microphone input and speaker output of your transceiver into the MFJ-630 cordless phone interface.

It's a tiny 3x4x1 inches, has a modular jack for plug-in connection to the cordless phone base unit and RCA jacks for speaker and microphone connection to your transceiver. You must use VOX operation. Does not provide remote tuning.

MFJ Antenna Current Probe

MFJ-206
$79.95
Shipping Code A



This revolutionary MFJ Antenna Current Probe lets you monitor RF antenna currents -- no connections needed! Determine current distribution, RF radiation pattern and polarization of antennas, transmission lines, ground leads, building wiring, guy wires and enclosures.

Indicate transmission line radiation due to high SWR, poor shielding or antenna unbalance. Detect re-radiation from rain gutters and guy wires that can distort antenna field patterns. Detect RF radiation from ground leads, power cords or building wiring that can cause RFI. Pinpoint RF leakage in shielded enclosures. Locate the best place for your mobile antenna. Use as tuned field strength meter.

Monitors RF current by sensing magnetic field. Uses an electrostatically shielded ferrite core. FET RF amplifier, op-amp meter circuit for excellent sensitivity, selectivity. 1.8-30 MHz. Has sensitivity, band, tune controls. 4x2x2 in.

MFJ Antenna Bridge

MFJ-204B
$79.95
Shipping Code A

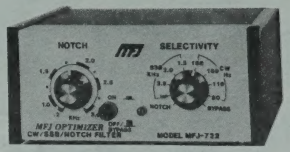
The MFJ-204B Antenna Bridge lets you trim your antenna quickly and easily for its best performance. The Antenna Bridge will give an accurate reading of your antenna resistance up to 500 ohms and will cover all ham bands to 30 MHz. When used to measure the resonant frequency of your antenna, you can check to see if the resonant frequency is higher or lower than desired. Then you can lengthen or shorten your antenna based on the information gathered with the MFJ-204B Antenna Bridge. Very easy to use. Just connect the antenna coax lead to the antenna bridge, set the frequency that you desire and adjust the bridge for a null meter reading. Antenna resistance shows on the dial. It's that simple!

MFJ-204B Antenna Bridge also has a frequency counter jack for precise frequency measurement and can be used as a signal generator. The Antenna Bridge is very compact, with all of these great features enclosed in a sturdy 4 x 2 x 4 inch black aluminum cabinet. MFJ-204B operates on a single 9 volt battery or 110 VAC with AC adapter, MFJ-1312, $9.95.

MFJ SSB/CW Audio Filters

Choose from the MFJ-752C Dual Tunable Filter or the MFJ-722 Super CW/SSB Notch Filter

MFJ-752C
$99.95
Shipping Code A



MFJ-722
$79.95
Shipping Code A

The MFJ-752C Signal Enhancer is a dual tuanable SSB/CW active filter system that gives you signal processing, performance and flexibility that others can't match! For example, you can select the optimum Primary Filter mode for an SSB signal, zero in with the frequency control and adjust the bandwidth for best response. Then, use the Auxiliary Filter to notch out an interfering heterodyne or peak the desired signal. For CW, peak both Primary and Auxiliary Filters for narrow bandwidth to give skirt selectivity that others can't touch. Also, use the Auxiliary Filter to notch out a nearby QSO. The **Primary Filter** lets you peak, notch, lowpass or highpass signals with a double tuned filter for extra steep skirts. The **Auxiliary Filter** lets you notch a signal to 70 db or peak one with a bandwidth down to 40 Hz. Tune both Primary and Auxiliary Filters from 300 to 3000 Hz. Vary bandwidth from 40Hz to almost flat. Notch depth to 70 db.

MFJ has solved problems that plague other tunable filters to give you a constant output as a bandwidth is varied. You also get a linear frequency control and a notch filter that is tighter and smoother for a more effective notch. Works with any rig. Plugs into phone jack. 2 watts for speaker. Inputs for 2 rigs. Switch selectable. Switchable noise limiter for impulse noise through clipper removes background noise. Use for SWLing as well as SSB and CW. Speaker and phone jacks. Speaker is disabled by phones. OFF bypasses filter. Uses 9 to 18 VDC at 300 mA or optional AC adapter, MFJ-1312, $9.95. Measures 10 x 2 x 6 inches.

MFJ-722, $79.95. The MFJ-722 "Optmizer" offers razor sharp, no ring CW filtering with switch-selectable bandwidths (80, 110, 150, 180 Hz centered on 750 Hz), steep-skirted SSB filtering. 300-3000 Hz tunable 70 db notch filter.

The 8-pole (4 stage) active IC filter gives CW performance that no tunable filter can match. (80 Hz bandwidth gives -60 db response on octave from center and up to 15 db noise reduction.) The 8-pole SSB audio bandwidth is optimized for reduced sideband splatter and less QRM (375 Hz highpass cutoffs at 2.5, 2.0 and 1.5 KHz, 36 db/octave rolloff).

Versatile, plug into the phone jack, provide 2 watts for speaker or use headphones. Requires 9-18 VDC or 110 VAC with optional adapter, MFJ-1312, $9.95. 5 x 2 x 6 inches.

MFJ Microphone Equalizer

MFJ-550
$49.95
Shipping Code A

The MFJ-550 Microphone Equalizer greatly improves transmitted SSB speech for maximum talk power, evens out speech peaks and valleys to produce cleaner speech on the receiving end and improves mobile operation.

Plugs between microphone and rig. Features include: bass, midrange and treble variable controls that provide a ± 12 db boost or cut at 490, 1170 and 2800 Hz; a microphone gain control and an on/off/bypass switch with "on" LED. Bypass switch connects microphone directly to rig. Aluminum cabinet. 9-volt battery, 12 VDC or 110 VAC with AC adapter, MFJ-1312, $9.95.

MFJ Deluxe Hybrid Phone Patch

MFJ-624B
$69.95
Shipping Code A

MFJ-624B Telepatch II gives you crisp, clear, hum-free audio -- and that's what phone patching is all about. It works with any rig, lets you use VOX or push-to-talk, and gives you RF pi-filters and PC Board construction that eliminates RF feedback.

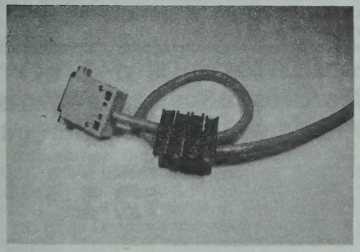
VU meter monitors phone line levels to prevent crosstalk. You adjust null depth for maximum isolation between receiver and transmitter. Gain controls. Tri-Function OFF/ON/NULL switch. NULL adjust. Simple 2 cable installation (plus phone line) when rig has patch-in-patch-out jacks. Phone jacks for patch-in-patch-out. Speaker, audio in/out. 8 x 2 x 6 inches.

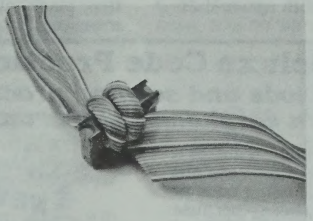
NEW

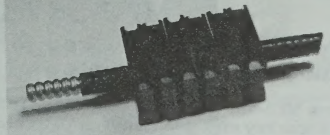
MFJ-701 RFI-Free Choke Kit

Eliminates RFI

MFJ-701
$14.95
Shipping Code A
Package of Four (4)







Versatile...Stackable...easy installation...use with all kinds of cables

The new MFJ-701 RFI-Free Choke Kit makes it easy to eliminate common RFI problems. It's based on the proven and highly effective technique of winding the offending cable or wire around a ferrite toriod to choke off and eliminate RFI.

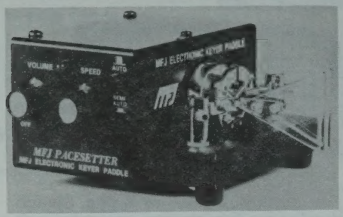
The problem has been finding a toriod with the proper characteristics -- one that actually eliminates RFI -- and one that has a big enough hole to pass through the end of a power cord or AC adapter or microphone cord or speaker leads, etc.

You get four square toriods that have the right properties for eliminating RFI from .5 to 200 MHz. Each toriod separates into halves and mounts in a tough snap-together plastic frame. This makes it easy to wind around the toriod nearly any kind of wire or cable. For example, computer ribbon cable, coax cable or a power cord with an AC adapter on its end can be wound around the toroid easily. The individual toriods also snap together into a stack. This increases effectiveness for large diameter wires where only a few turns can be used and for rigid cables where the cable is simply passed through a stack of toriods.

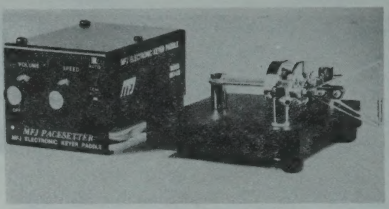
"How to Eliminate RFI" instructions included.

MFJ Keyer/Bencher Paddle Combo

MFJ, Bencher and Curtis team up to bring you America's most popular keyer in a compact package for smooth easy CW . . .



MFJ-422B
$129.95
Shipping Code B



MFJ-422BX
$79.95
Shipping Code A

The best of all CW worlds - a deluxe MFJ Keyer in a compact configuration that fits right on the Bencher iambic paddle! You can buy the combination or just the keyer for your Bencher.

MFJ Keyer is small in size, big in features. It features the proven Curtis 8044ABM IC, is adjustable in weight and tone and has front panel volume and speed controls (8-50 WPM). You also get built-in dot-dash memories, speaker, sidetone and push button selection of semi-automatic/tune or automatic modes. Ultra-reliable solid state keying: grid-block, cathode and solid state transmitters (-300V, 10 mA max., +300V, 100 mA max.). Fully shielded. Uses 9V battery or 110 VAC with optional adapter, MFJ-1305, $9.95.

Beautiful, functional engineering. The keyer mounts on the paddle base to form a small (4 1/8 x 2 5/8 x 5½ inches) attractive combination that is a pleasure to look at and use.

The Bencher Paddle is a best seller. Fully adjustable gold-plated silver contacts, lucite paddles, chrome plated brass, heavy steel base with non-skid feet.

MFJ Econo Electronic Keyer II

Economical MFJ keyer lets you send perfect CW with surprisingly good sound.

MFJ-401B
$49.95
Shipping Code A

The MFJ-401B Econo Keyer II is based on the proven Curtis 8044ABM IC Keyer chip. It lets you send iambic, automatic, semi-automatic or manual with your squeeze, single lever or straight key.

You get iambic operation with squeeze key. Dot-dash insertion. Semi-automatic "bug" operation provides automatic dots and manual dashes.

Econo MFJ keyer also features dot-dash memories, self-completing dots and dashes, jam-proof spacing. Instant start. RF proof.

Front panel controls. Smooth linear speed control selects from 8 to 50 WPM. Volume control gives you a wide range. A tune switch lets you key your transmitter for tuning.

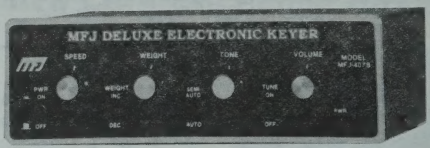
Internal controls: Weight control adjust dot-dash space ratio, makes your signal distinctive to penetrate QRM. Tone control for desired side tone pitch.

Ultra-reliable solid state keying: grid-block, cathode, solid state transmitters (-300V, 10 mA max., +300V, 100 mA max.).

Uses 9V battery (not included) or 110 VAC with optional AC adapter, MFJ-1305, $9.95. 4 x 2 x 3½ inches.

MFJ Deluxe Electronic Keyer

Deluxe MFJ Keyer gives you beautiful CW and a full array of front-panel controls.



MFJ-407B
$69.95
Shipping Code A

The MFJ-407B Deluxe Electronic Keyer sends iambic, automatic, semi-automatic and manual. You can use squeeze, single lever or straight key to send your signal. The MFJ-407B features iambic operation with squeeze key, dot-dash insertion, semi-automatic dots and manual dashes. The keyer also features dot-dash memory, self-completing dots and dashes, jam-proof spacing and instant start keying. A switch lets you turn dot memories on or off.

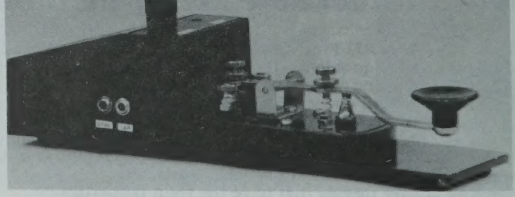
Solid state plus and minus keying is provided for use with tube or solid state transmitters. Front panel controls include linear speed, weight, tone and volume controls as well as on/off, tune and semi-automatic switches. Weight control provides positive weight or negative weight. Adjust the dot-dash space ratio, thus making your signal distinctive to penetrate QRM. Tune switch keys transmitter for tuning.

The MFJ-407B is RF proof, has a built-in speaker and uses a 9-volt battery (not included) or 110 VAC with AC adapter, MFJ-1305, $9.95. This hard working product comes in an attractive black aluminum cabinet with a black front plate. It measures 7 x 2 x 6 inches.

MFJ-557 Deluxe Code Practice Oscillator

Deluxe Morse straight key for code and sending practice features a heavy steel base, tone and volume controls and an earphone jack for an incredible . . . $19.95

MFJ-557
$24.95
Shipping Code B



The new MFJ-557 Deluxe Code Practice Oscillator features a straight Morse key on a non-skid heavy steel base that stays put on your table. The MFJ-557 lets you practice sending code at home, work, riding in your car -- practically anywhere -- because it's so easy to take it along wherever you go. A volume control lets you adjust it from barely audible to blaring full sound. You can practice without bothering anyone. A tone control gives you a wide adjustment, from high "squeaky" to low "booming" tones. You even get an earphone jack for private listening.

It runs on a 9 volt battery (not included) or an optional power supply ($9.95) that plugs into a jack on the side. When you're finished cleaning up your sloppy fists with the new MFJ-557 Deluxe Code Practice Oscillator, hook it to your transmitter and go on the air sounding just like you were born working QSOs.

Don't pass up this super buy. Built-in speaker. Adjustable contacts. Solid. 8½ x 2¼ x 3¾ inches. Black. It comes with MFJ's one year unconditional guarantee.

New MFJ *Super Grandmaster* Memory Keyer

Gives you the *easiest to use* and *most powerful* microprocessor based memory keyer ever developed

MFJ-486
$169.95
Shipping Code A

The new MFJ-486 Contest Memory Keyer gives DXers, Contesters and CW Ragchewers everything they'll ever need in a super powerful memory keyer that's as easy to use as turning a knob or pressing a button.

You get 8000 characters of memory -- more than you'll ever need. You also get a soft partitioned design that lets you put as many characters as you want in any message. If you wanted to, you could store several entire QSOs in the message memories.

Recording is a simple matter of pressing the record and memory buttons and sending from the key paddle. MFJ-486 records only the code you send at the speed you choose. It doesn't record pauses between characters so you can send perfect CW.

DXers will love the thrill of pressing a message memory button to answer CQ and snag rare DX while others are still reaching for their controls. And Ragchewers will enjoy having much-repeated code stored in the memory keyer so they can save their wrists.

Contesters will appreciate time saving features like automatic stop and resume pauses so you just press the button and send the other stations' calls from your paddle while you handle heavy traffic. Everything else can be in the message memories -- QTH, your Call, RST, Rig info -- all that you used to repeat over and over. You'll save precious time and work tons more QSOs.

You get Automatic Incrementing Serial Numbering. In a contest, it can make the difference between winning and losing.

You get a Random Code Generator that'll help you copy CW faster. It lets you select from plain English messages or character groups (with or without punctuation). You also get a choice of normal spacing or Farnsworth spacing. Use the Random Code Generator to upgrade your license or in the classroom with its built-in speaker. Send code practice over the air by pushing a button.

A leak *proof* lithium battery backup keeps your messages safely recorded. Even if you quit CW for a year, when you come back to it and dust off your MFJ-486 Contest Memory Keyer your messages will still be recorded just like you left them.

Another special feature lets you insert any message memory into any other message memory. A five function message edit mode makes it *easy* to edit a message of any length.Functions are Add, Backup, Continue, Delete and Erase.

All the clearly marked controls are on the front panel. You won't have to learn complex commands like with the a keypad memory keyers. You won't even have to read the instructions.

Knobs are used for Speed, Weight, Volume, Tone and Delay (between automatic message repeats). Not only are they ultra-reliable and user-friendly -- they remember your settings if power is lost or turned off. Push buttons select tune (for keying up), Random Code Generator, Character Spacing, repeat message, delay, delete, backup (for editing), or add to a playing message.

Its compact size (9 x 2½ x 6 inches) matches its ease of use so it fits into your station. LEDs indicate message memory in use, delay/edit and power on. Eggshell white aluminum cabinet.

Plus . . . speed selectable from 4-100 wpm, 5 function message edit mode, Automatic Contesters Serial Numbering, message repeat with adjustable timer, dot and dash weight adjustment, Z80 CPU with eight thousand characters of soft partitioned message memories, Random Code Generator, all morse characters, real time memory loading, instant start from memory, one year *unconditional* guarantee and more for . . . $169.95

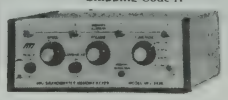
Get the new MFJ-486 Contest Memory Keyer and send perfect CW at the touch of a button. You'll be glad you did.

MFJ-77, $19.95. Gives you complete control of message memories at the key paddle. It works like a wired remote control. Add $4.00 shipping if ordering MFJ-77 alone.

MFJ Grandmaster Memory Keyers

MFJ-484C
$149.95
Shipping Code A

MFJ-482B
$109.95
Shipping Code A



MFJ-484C is so easy to use that you can use all of its many features without reading the instruction manual.

Controls are logically positioned and clearly labeled. Pots are used for speed, volume, tone and weight because they are easy to use and remember your settings with power off. Up to twelve 25 character messages can be stored plus a 100, 75, 50 or 25 character message (4069 bits total). A switch combines 25 character messages for up to three 50 character messages. You can repeat any message continuously and even leave a pause between repeats (up to 2 minutes). LED indicates Delay Repeat Mode. Instantly insert into any playing message by sending.

LEDs show which 25 character memory is in use and when it ends. Built-in memory saver uses 9 volt battery. Saves message in memory when power loss occurs or when transporting keyer. Ultra compact, 8 x 2 x 6 inches. All ICs in sockets.

Iambic operation with squeeze key. Dot-dash insertion. Dot-dash memories, self completing dots and dashes, jamproof spacing, instant start (except when recording). Smooth linear speed control. 8 to 50 WPM. Weight control lets you adjust dot-dash-space ratio; makes your signal distinctive to penetrate QRM. Tone control lets your room fill with volume. Speaker. Reliable solid state keying. Use 12 to 15 VDC or 110 VAC with optional AC adapter, MFJ-1312, $9.95. Switches to batteries if power is lost.

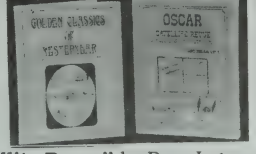
MFJ-75, $14.95. Control memories at key paddle.

MFJ-482B, $99.95. Store four-25 character messages or a 50 and two-25 character messages in 1024 bits of memory. Repeat function repeats messages. Memory resets with button or paddle. Memory LED. Memory saver saves messages when power is lost. Iambic keyer. Dot-dash insertion. Speed, volume controls on front. 8 to 50 WPM. Weight control for QRM penetration.

"Golden Rigs of Yesteryear" and "Oscar Satellite Revue"

by noted author Dave Ingram, K4TWJ

MFJ-30
$9.95
Shipping Code A



MFJ-31
$7.95
Shipping Code A

Remember the 6L6 rigs, Heathkit DX-100, Collin KWM-1, WRL Globe Scout, Hallicrafters, RME, Hammulard, National HROs, Eimac tubes, E.F. Johnson, WWII rigs -- ARC-5, BC-342/348 -- "bugs" by Vibroplex, McElroy, DOW KEY, Speed-X...

All these famous names plus many more you'll recognize are in "Golden Classics of Yesteryear". It's *all ham radio* in content and it's jam-packed with real-life tales, transmitters, receivers, favorite circuits, telegraph keys and bugs and other ham topics.

Easy-to-build weekend projects -- transmitters, receivers and other projects -- from the 1920s, 30s 40s, and 50s are included.

You'll see how you can build a classic "Tailender" -- an early DX memory keyer -- that requires no power supply or other electronic parts and works like a champ.

You'll learn how to collect, restore and operate classic gear.

"Golden Classics of Yesteryear" is written by Dave Ingram, K4TWJ -- one of amateur radio's most recognized and respected authors, especially in classic gear. He has authored over 300 articles and 12 books on amateur radio.

It'll be the most enjoyable $9.95 you'll spend. Order today!

"Oscar Satellite Revue" by Dave Ingram, K4TWJ is an anthology of CQ Magazine articles on setting up various types of OSCAR stations and operation via amateur radio satellites.

Each article is followed by a *new updating addition*, then ready-to-use frequency conversion charts for *all* satellite modes and tracking notes for OSCAR 13, OSCAR 10, Japanese JO-12 and Russian RS-10/RS-11 amateur radio satellites are featured.

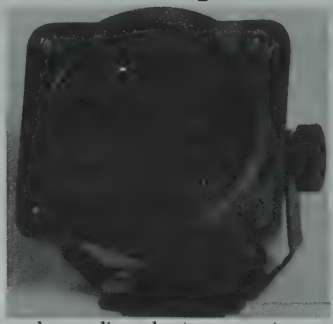
There's also a *quick-start guide* for newcomers and a large equipment review section. Additionally, up-to-date Keplerian data for computerized tracking programs are included.

This new guide takes *you* **from setup to success,** and every part is written is non-technical easy-to-understand language. No confusing calculations or complex descriptions.

See how easy it is to join the fun via amateur radio satellites. Order today. $6.95 plus shipping and handling.

K

Compact Mobile Speaker



MFJ-280
$19.95
Shipping Code A

Enjoy crisp, clear audio and extra convenience with this tiny, low cost mobile speaker. Just set the base on any magnetic surface, plug in the 3.5 mm phone plug and it's ready. Two auxiliary mounting plates with two-sided tape allow mounting on a car dash or other non-magnetic surface (screws also included). A 30 inch cord and tilt bracket give you extra versatility.

It works with all 8 and 4 ohm impedances and handles up to 3 watts of audio. Its dark military color matches your rig. Measures 2½x2x3 inches and weighs less than half a pound!

MFJ Speaker/Mics

For Kenwood, Icom, Yaesu, Santec and others

NEW

MFJ-284 or MFJ-286
$24.95
Shipping Code A

Once you've tried a new MFJ Speaker/Mic you'll never want to be without it. You'll be able to carry your handheld on your belt without ever having to remove it to listen or talk.

You'll never have to turn up your audio annoyingly loud because its handy lapel/pocket clip lets you place it close to your ear.

And you'll never have to remove your handheld from your belt to talk because you can talk into the speaker/mic with its push-to-talk button.

They come with a lightweight retractable cord that eliminates the "dangling cord problem". **MFJ-284 fits Santec, Icom and Yaesu. MFJ-286 fits Kenwood.** They feature very clean audio on both transmit *and* receive.

They sound good, look good, work good and are priced right. The attractive dark grey color will match your handheld perfectly.

Handheld VHF Converters

Expand your handheld coverage! These inexpensive VHF converters plug between your handheld and rubber ducky.

MFJ-313 turns your synthesized scanning 2 meter handheld into a hot Police/Fire scanner on 154-158 MHz with direct frequency readout. *Plus* you'll hear NOAA weather, maritime coastal and more on 160-164 MHz.

MFJ-314 turns your 2 Meter handheld into a 220 MHz receiver. Listen in on what's left of the new Novice band.

If you have extended coverage the MFJ converters will extend it more. Add 77 MHz to your band limits to determine your coverage with MFJ-314; add 10 and 16 MHz to determine your expanded coverage with MFJ-313.

Feedthru allows simultaneous scanning of both 2 meters and Police/Fire bands. No missed calls.

Highpass input filter and 2.5 GHz transistor give excellent uniform sensitivity over both bands. Crystal controlled. Bypass/Off switch allows transmitting. Won't burn out if you transmit (up to 5 watts) with convert on. Low insertion SWR. Uses AAA battery. 2¼ x 1½ x 1½ inches. BNC connectors.

MFJ-313 or MFJ-314
$39.95
Shipping Code A

Handheld 2 Meter Wattmeters

MFJ-840 accurately checks the power output of your 2 meter handheld transceiver. 5 watts full scale. Provides 50 ohm load. BNC connector. 2 x 2¼ x 1½ inches. Black.

MFJ-841. Connects directly in line with your 2 meter HT. Read SWR from 1:1 to 6:1 and forward power to 5 watts. Expanded scale. 50 ohm impedance. BNC connectors. 2 x 2¼ x 1½ inches. Black. Switch: SWR, SWR set, power, SWR set pot.

MFJ-840
$19.95
Shipping Code A

MFJ-841
$39.95
Shipping Code A

Telescoping "Pocket Linears"

increase your range with significant gain over a rubber ducky...break in from the fringe!

MFJ-1710, $9.95. Most hams use a rubber ducky on their 2 Meter handheld. They work fine -- for short range. But what about when you are just barely breaking into a repeater? Wouldn't it be nice to slip on a linear that fits in your shirt pocket like a pen and cost only $9.95?

When you're right on the fringe with a noisy signal, try on the MFJ-1710 "pocket linear". It's a 3/8 wave 2 Meter telescoping antenna. You'll get enough gain over a rubber ducky to bring you to full quieting so you can carry on a QSO. It only cost $9.95, has a convenient pocket clip and when collapsed is the size of a ball point pen -- about 5¼ inches -- and 24½ inches extended.

MFJ-1712, $14.95. This is a very convenient dual band telescoping antenna. It's a 1/4 wave for 2 Meters and a 5/8 wave for 440 Mhz. It's 7¼ inches collapsed and 19 inches extended.

MFJ-1714, $16.95. For really long range using a 2 Meter handheld it's hard to beat the MFJ end fed halfwave. It's shorter, lighter, has more gain and places less stress on your antenna connector than a 5/8 wave mounted on a handheld. The MFJ unit works better than a 5/8 wave because a 5/8 wave requires a ground plane to function properly. There is no ground plane on a handheld and a 1/2 wave does not require one so it works properly and out-performs a 5/8 wave. When collapsed it performs like a rubber ducky.

MFJ-1710
$9.95
Shipping Code A

MFJ-1712
$14.95
Shipping Code A

MFJ-1714
$16.95
Shipping Code A

NEW

Mobile Shortwave Converters

MFJ-304
$79.95
Shipping Code A

MFJ-308
$99.95
Shipping Code A

Another MFJ "first"! These low cost mobile shortwave broadcast converters provide new excitement and variety for your driving/listening pleasure.

MFJ has two models for you to choose from! The 4-band "World Explorer I" (MFJ-304) offers complete 19, 25, 31 and 49 meter coverage. These are the most popular HF bands due to their extraordinary distance capabilities at various times of the day and the year. Hear countries from Europe, Africa, the Middle East, Asia, Island Nations, North and South America! And the 8-band "World Explorer II" (MFJ-308) adds 13, 16, 41 and 60 meter bands for even greater listening variety.

SW/MW/LW Preselector/Tuner

MFJ-956
$39.95
Shipping Code A

The new MFJ-956 short, medium, long wave preselector/tuner lets you boost your favorite stations while rejecting images, intermod and other phantom signals on your shortwave receiver! It greatly improves reception of 150 KHz thru 30 MHz signals, especially those below 2 MHz.

Connects between receiver and antenna. Has tuner bypass and ground receiver positions. 2 x 3 x 4 inches.

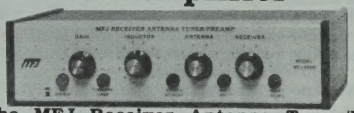
All Band Transceiver/Preselector

MFJ-1040B
$99.95
Shipping Code A

MFJ-1040B transceiver/preselector lets you copy weak, barely readable signals. Rejects out-of-band signals, images. Strong signal ability reduces cross modulation overloading. Excellent signal to noise ratio. **Continuous 1.8 to 54 MHz:** all HF amateur, shortwave bands. Up to 20 db gain. Gain control. Dual gate MOSFET, bipolar transistors for low noise, high gain, strong signal ability. Push button switches for 20 db attenuator. ON/OFF BYPASS, 2 antennas, 2 receivers. Dual coax and phone jacks for antennas, receivers. RF sensing relay automatically bypasses preselector when transmitting up to 350 watts input. Delay control. Jack for push-to-talk. LED. 8 x 2 x 6 inches. 9-18 VDC or optional AC adapter, $9.95.

MFJ-1045, $69.95. *(not pictured)* Same as MFJ-1040, less attenuator, xcvr auto bypass, delay control, PTT.

MFJ Receiver Antenna Tuner/Preamplifier

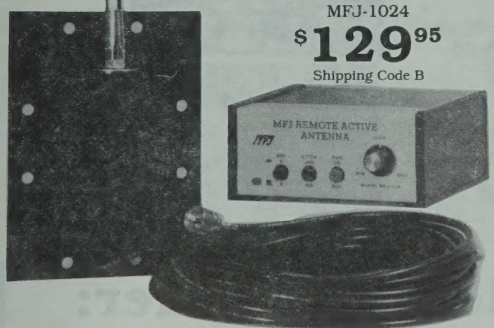


MFJ-959B
$89.95
Shipping Code A

The MFJ Receiver Antenna Tuner/Preamplifier will match your antenna to your receiver for maximum signal from 1.8 to 30 MHz. The MFJ-959B utilizes a **low noise 20 db preamplifier** to boost weak signals. It also has a 20 db attenuator built-in to help receivers plagued with overload problems from strong signals.

The MFJ-959B can connect two receivers to two antennas with either SO-239 connectors or RCA phono jacks for convenience. Select between tuner-attenuator, tuner, tuner with preamp and bypass. Gain control for boosting signal. Measures only 9 x 2 x 6 inches. 9-18 VDC or 110 VAC with optional AC adapter, MFJ-1312, $9.95.

54" Outdoor Active Antenna



MFJ-1024
$129.95
Shipping Code B

This 54 inch Active Antenna eliminates outside long wire antennas. Puts you in business where space is a problem. Mount it anywhere, atop houses or apartments, on board ships. Use it with any radio to receive strong, clear signals from all over the world without an outside long wire antenna. So powerful that it often outperforms long wires hundreds of feet long!

Covers all waves from 50 KHz to 30 MHz, and all frequencies from VLF thru lower VHF: long wave, medium wave, broadcast and shortwave bands. Mount away from electrical noise for maximum signal and minimum noise pickup. A very high, dynamic range, impedance transforming amplifier module eliminates intermodulation. Hear only the signals that are there.

The control unit has a 20 db attenuator and gain control to prevent receiver overload. A receiver switch selects between 2 receivers and an antenna switch selects an auxiliary antenna. LED indicates power "ON". MFJ-1024 comes complete and ready to use with a 50 foot coax cable and hardware.

The control unit is 6 x 2 x 5 inches and the remote unit is 3 x 2 x 4 inches with the 54 inch whip antenna mounted onto it. Use 12 VDC or 110 VAC with optional AC adapter, MFJ-1312, $9.95.

MFJ Indoor Active SWL Antenna

Pull in strong clear signals from all over the world from 300 KHz to 30 MHz

MFJ-1020A
$79.95
Shipping Code A

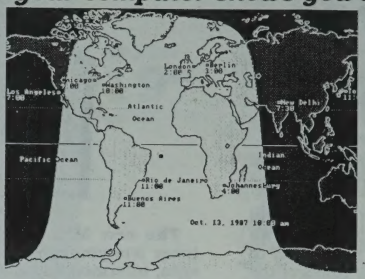
"World Grabber". Put this handsome unit on your operating desk and listen to the world! Its performance rivals reception from outside long wire antennas.

Unique tuned circuitry minimizes intermodulation, provides additional RF selectivity and reduces noise outside the tuned band. Amplification also permits using the MFJ-1020A as a preselector with an external antenna for added versatility. **Cover 300 KHz to 30 MHz in 5 bands.** Switch select .3 - .7, .7 -1.6, 1.6 - 4, 4 -11, 11 - 30 MHz. The adjustable telescoping antenna gives you maximum signal, minimum noise. **Full controls** for tuning, band selection, gain and function (On-Off/Bypass). LED indicator. FET, bipolar circuitry. Phono jack provided for use with external antenna. Universal power. Operates on 9 V battery (not included), 9-18 VDC power supply, or 110 VAC with AC adapter, MFJ-1312, $9.95.

This handsome black metal cabinet with a brushed aluminum front panel easily fits on your desk. Measures 5 x 2 x 6 inches. Where ever you live, city apartment or country home, the MFJ-1020A will grab the SWL world for you!

MFJ-1286 Gray Line DX Advantage

super display software for your computer shows you when to snag rare DX...$29.95



MFJ-1286

$29.95

Shipping Code A

Snag *rare* DX for only $29.95!

The new MFJ-1286 Gray Line DX Advantage is a computerized DXing tool that predicts DX propagation. Even the casual DXer can work rare DX by knowing exactly when conditions are best for DX.

You get a high resolution world map that continuously displays the Gray Line as a moving area of day and night that changes with time as it tracks the movement of the earth.

The Gray Line is the daynight divider line where the most amazing DX happens every day. With the new MFJ Gray Line DX Advantage you'll know exactly when to take advantage of the Gray Line.

The MFJ-1286 Gray Line DX Advantage gives you a detailed world map that shows you the moving Gray Line, the position of the sun over the earth, UTC times, timezones and latitude/longitude markers at a glance.

You can customize the world map and display time and location for any 24 QTHs in the world. It makes DXing and Skeds precise and easy.

This new MFJ DX software for your IBM or compatible gives you instant access to a Geochron® style world map.

You can run it by itself or memory resident in conjunction with your beam header, word processing, communications or other software. It works with all graphics: composite, Hercules, CGA, EGA and VGA.

You can enter any date after 1980 to set your Skeds for any time in the future. Or you can check solar/Gray Line positions from past QSOs to answer questions about particularly good or bad RST.

Or use it to Sked your next DXpedition by determining Gray Line times at the QTHs you plan to work.

Get the most from your station. Get the MFJ Gray Line DX Advantage. You'll be glad you did. Limited warranty.

CW Code Tutor for Commodore 64/128

feature packed, fun program makes Morse code learning easier than ever

This new full feature MORSE Code Tutor Program for the Commodore 64 and 128 not only teaches Morse code but it is also a full fledged **iambic keyer and Morse keyboard!** With the optional $19.95 **MFJ-76 Interface Board** you can plug in an external keyer paddle and key a transmitter or transceiver.

Excellent audio quality and a full menu of features make code learning easier than ever. **Select Random** -- lets you choose the letters you wish to study. **Complete Random** -- sends all alphabet, numbers and punctuation randomly. **Random Message** -- sends a plain English message exactly as given on an FCC test or received on the air. **Message Store** -- lets you enter a message from the keyboard and store for sending. **Direct Keyboard** -- lets you send code directly from your computer keyboard. Use normal CW spacing or the special Farnsworth spacing that sends characters at a fast pace with longer space between characters. A copy of a test similar to an **FCC Novice license test** is included in the manual.

It can be used with ARRL's "Tune in the World" course or with MFJ supplied code learning course. It is designed for both individual study and classroom use and features **Screen Blanking** for testing purposes. Limited warranty.

MFJ-1266 (disk)

$19.95

Shipping Code A

MFJ-1267 (cartridge)

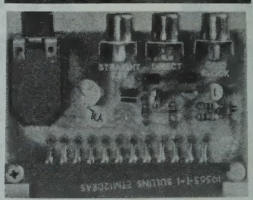
$29.95

Shipping Code A

MFJ-76 (interface board)

$19.95

Shipping Code A



For your nearest dealer or to order:

For your Nearest Dealer or to Order: Call Toll Free **800-647-1800** and charge it to your **MasterCard or VISA,** or have us send it COD within the continental USA. Inside Mississippi or outside of the continental USA call **601-323-5869.** Call Monday - Friday from 8 A.M. - 4:30 P.M. CST. **Telex:** 53-4590 MFJ STKV. **FAX:** 601-323-6551.

Order by mail: Write **MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762.** Please include all model numbers and check or money order for full amount (plus shipping/handling charges). Or you can pay by **VISA or Master Card** (include card number and expiration date -- your account will not be charged until we ship your order).

Foreign Orders: Orders outside the USA and Puerto Rico must include payment in U.S. funds, check on U.S. bank, International money order or International VISA or MasterCard. Orders shipped airmail unless other instructions are given..

Unconditional Guarantee: All Products (except as noted) manufactured by MFJ Enterprises, Inc. are *unconditionally guaranteed* for one year from the date of purchase. We will replace or repair (at our option) any of our products which are defective for any reason.

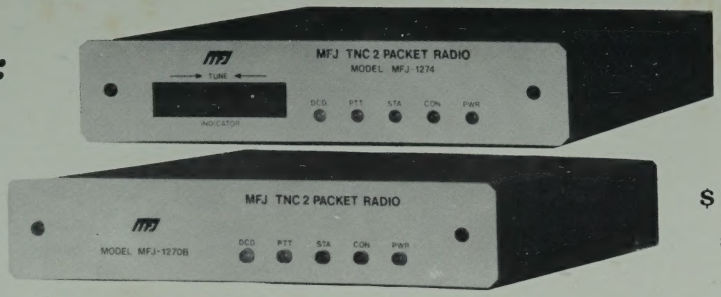
Price Chart for Shipping Charges

Shipping Code	UPS	Parcel Post	Canada	Outside U.S.
A	4.00	4.00	5.00	25.00
B	5.00	6.00	7.00	30.00
C	5.00	7.00	9.50	35.00
D	6.00	9.00	10.50	40.00
E	10.00	15.00	22.00	50.00

MFJ VHF/HF TAPR TNC-2 Clones Packet Radio

Now you can get on Packet *fast* with the high quality MFJ TNC for an affordable...$119.95...
...New features include 32K RAM, KISS, TCP/IP and NET ROM compatibility and **FAX** receiving with your MFJ TNC and MFJ Starter Pack for IBM (MFJ-1284) or Macintosh (MFJ-1287) and compatible...

Now with:
- ***WeFAX***
- ***KISS***
- ***32K RAM***



MFJ-1274
$149.95
Shipping Code B

MFJ-1270B
$129.95
Shipping Code B

Now you can join the exciting world of packet radio on both VHF and HF bands ...for an incredible $139.95!
You get MFJ's top quality clone of the highly acclaimed industry standard TAPR TNC-2. We've made TAPR's modem selectable for both VHF and HF operation, added a TTL serial port, an easily replaceable lithium battery for memory back-up and put it all in a new cabinet.

A new **KISS** Interface lets you run **TCP/IP** and other programs that use the Serial Link Interface Protocol (SLIP). And MFJ TNCs come **NET ROM** compatible -- ***no modification needed!***

All you need to get on packet is an MFJ-1270B, your rig, and any computer with an RS-232 serial port and terminal program.

If you have a Commodore 64, 128, VIC 20, Macintosh, IBM or compatible, you can use MFJ's optional Starter Pack to get on the air immediately. The Starter Pack includes interface cable, software on disk or tape and complete instructions . . . everything you need to get on packet *fast*. Order MFJ-1282 (disk)/MFJ-1283 (tape) for the Commodore, MFJ-1284 for your IBM or compatible, MFJ-1287 for Macintosh, With your IBM or Macintosh compatible and an MFJ Starter Pack you can receive **FAX** on your MFJ TNC.

Unlike machine specific TNCs you never have to worry about your MFJ-1270B becoming obsolete because you change computers or because packet radio standards change. You can use any computer with an RS-232 serial port and terminal program. If packet radio standards change, software updates will be made available as TAPR releases them.

Speeds in excess of 56K baud are possible with an external modem! Try that with a machine specific TNC or one without hardware HDLC as higher speeds come into widespread use.

You can also use your MFJ TNC as an excellent but inexpensive digipeater to link other packet stations.

It features AX.25 Level 2 Version 2 software, hardware HDLC for full duplex, true Data Carrier Detect for HF, multiple connects, 256K EPROM, **32K RAM**, simple operation, socketed ICs plus much more.

You get an easy-to-read manual, a cable to connect your transceiver (you have to add a connector for your particular radio), a connector for the TTL serial port and a power supply for 110 VAC operation (you can use 12 VDC for portable, remote or mobile operation).

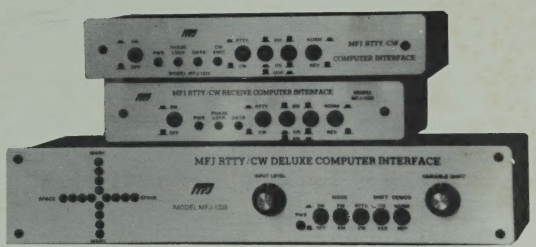
Help make history! Join the packet radio revolution now and help spread this exciting network throughout the world. Order the top quality and affordable MFJ-1270B today.

MFJ-1273, $49.95. MFJ clone of TAPR Tuning Indicator. Shows you which way to tune. Works with all TNC-1s, TNC-2s and clones that have the TAPR Tuning Indicator connector.

MFJ-1272, $29.95. TNC/Mic Interface Box. Lets you connect your TNC and microphone simultaneously. 4-pin mic jack. 4-pin female plug included. RCA jacks for audio in and out.

RTTY/ASCII/AMTOR/CW Computer Interfaces

These MFJ interfaces include FREE software on disk and FREE cable for Commodore 64/128!



MFJ-1224
$109.95
Shipping Code B

MFJ-1225
$79.95
Shipping Code A

MFJ-1229
$179.95
Shipping Code B

Engineering, performance, value and features set MFJ's most advanced RTTY/ASCII/AMTOR/CW computer interface apart from all others. FM (limiting) mode gives easy, trouble free operation. AM (non-limiting) mode gives superior performance under poor signal conditions. Crosshair mark-space LED tuning array simulates scope elipse for easy, accurate tuning. Mark and space outputs for true scope tuning. Transmits on 170 Hz and 850 Hz shift. Built-in RS-232 interface. Variable shift tuning lets you copy any shift between 100 and 1000 Hz and any speed (5-100 WPM RTTY/CW and up to 300 baud ASCII). Push button for 170 Hz shift. Sharp multi-pole mark and space filters give true mark-space detection. Ganged pots give space passband tuning with constant bandwidth. Trim pots adjusted for optimum filter performance. Multi-pole active filters for prelimiter, mark, space and post detection filtering. Automatic threshold correction. Advanced design gives good copy under QRM, weak signal and selective fading. Front panel sensitivity control. Normal/Reverse switch eliminates retuning while checking for inverted RTTY. Speaker jack. +250 VDC loop output. Exar 2206 sine wave generator gives phase continuous ASFK tones. Standard 2125 Hz mark and 2295/2975 Hz space. Microphone lines: AFSK out, AFSK ground, PTT out and PTT ground. FSK keying. Has sharp 800 Hz CW filter, plus and minus CW keying and external CW key jack. Kantronics software compatible socket. Exclusive TTL/RS-232 general purpose socket allows interfacing to nearly any personal computer with most appropriate software. Available TTL/RS-232 lines: RTTY demod out, CW demod out (TTL only), CW-ID in, RTTY in, PTT in, key in. Signal lines are buffered and can be inverted with internal DIP switch.

Black metal cabinet. Brushed aluminum front. 12½ x 2½ x 6 inches. 18 VDC or 110 VAC with optional AC adapter, MFJ-1312, $9.95. Plugs between rig and C-64, VIC-20, Apple, TRS-80C, Atari, TI-99 and other personal computers. Uses MFJ and other RTTY/ASII/AMTOR/CW software.

MFJ-1224, Like MFJ-1229 without RS-232 Interface or crosshair LED tuning array. 8 x 1 ¼ x 6 inches. **MFJ-1223, $29.95,** RS-232 adapter for MFJ-1224.

MFJ-1225, Receive only interface for RTTY/ASCII/AMTOR/CW. 4½ x 1¼ x 4¼ inches.

MFJ multi-mode data controller

9 modes for only . . . $249.95

Amateur radio's most versatile multi-mode data controller - the MFJ-1278 -lets you join the fun on Packet, AMTOR, RTTY, ASCII, CW, Weather FAX, SSTV, Navtex and gives you a full featured Contest Memory Keyer mode . . . you get 9 modes . . . for an affordable $249.95.

Plus you get MFJ's new **Easy Mail™** Personal Mailbox so you and your ham buddies can leave messages for each other 24 hours a day.

You'll find it **the most user friendly of all multi-modes.** It's menu driven for ease of use **and** command driven for speed.

A high resolution 20 LED tuning indicator lets you *tune in signals **fast** in any mode.* All you have to do is to center a single LED and *you're precisely tuned in to within 10 Hz* -- and it shows you which way to tune!

Plus you get 32K RAM, KISS for TCP/IP, high performance HF/VHF/CW modems, software selectable dual radio ports, AC power supply and more.

All you need to join the fun is an MFJ-1278, your rig and any computer with a serial port and terminal program.

You can use the MFJ Starter Pack to get on the air instantly. It includes computer interfacing cable, terminal software and friendly instructions ... everything you need. Order MFJ-1282 (disk)/ MFJ-1283 (tape) for C-64/128/VIC-20; MFJ-1284 the IBM or compatible; MFJ-1287 for Macintosh, $24.95 each.

Packet

MFJ's new generation packet mode gives you genuine TAPR software and hardware plus many MFJ enhancments like the Easy Mail™ Personal Mailbox.

A new KISS interface makes the MFJ-1278 TCP/IP compatible.

Extensive tests published in *Packet Radio Magazine* ("HF Modem Performance Comparisons") prove the TAPR designed modem in the MFJ-1278 gives better copy with proper DCD operation under all tested conditions than the other modems tested.

New AMTOR mode!

Now MFJ-1278 has a new AMTOR mode, making it the only controller to feature **nine** digital modes.

MFJ-1278 transmits and receives AMTOR and includes all AMTOR modes: ARQ (Mode A), FEC and MODE S (Mode B).

Baudot RTTY

You can copy all shifts and all standard speeds including 170, 425 and 800 Hz shifts and speeds from 45 to 300 baud. *You can copy not only amateur RTTY but also press, weather and other exciting traffic.*

You can transmit both narrow and wide shifts. The wide shift is a standard 850 Hz shift with mark/space tones of 2125/2975 Hz. This lets you operate MARS and standard VHF FM RTTY.

ASCII

You can transmit and receive 7 bit ASCII using the same shifts and speeds as in the RTTY mode.

CW

You get a Super Morse Keyboard mode that lets you send and receive CW effortlessly, including all prosigns -- it's tailor-made for traffic handlers.

A huge type ahead buffer lets you send smooth CW even if you "hunt and peck".

You could store entire QSOs in the message memories, if you wanted to! You can link and repeat any messages for automatic CQs and beaconing. Memories also work in RTTY and ASCII modes.

***A** tone Modulated CW mode turns your VHF FM rig into a CW transceiver* for a new fun mode. It's perfect for transmitting code practice over VHF FM.

An AFSK CW mode lets you ID in CW.

You also get a random code generator that'll help you copy CW faster.

Weather FAX

You'll be fascinated as you watch WEFAX signals blossom into full fledged weather maps on your Epson or IBM graphics compatible printer.

Automatic sync and stop lets you set it and leave it for no hassle printing.

You can save FAX pictures and WEFAX maps to disk if your terminal program lets you save ASCII files to disk.

Pictures and maps can be saved to disk or *printed to screen in real time or from disk if you have an IBM or Macintosh* with the MFJ Starter Pack.

You can transmit FAX pictures right off disk and have fun exchanging and collecting them.

Slow Scan TV

The MFJ-1278 introduces you to the exciting world of slow scan TV.

You can print slow scan TV pictures on any IBM or Epson graphics compatible printer. If you have an IBM or Macintosh you can print to screen and save to disk with the MFJ Starter Pack.

You can transmit slow scan pictures right off disk. If your terminal program lets you save ASCII files you can save pictures from over-the-air QSOs.

You can transmit and receive 8.5, 12, 17, 24, and 36 second black and white format SSTV pictures using two levels.

Contest Memory Keyer

***Nothing** beats the quick response of a memory keyer during a heated contest.*

You'll score valuable contest points by completing QSOs so fast you'll leave your competition behind. And you can snag rare DX by slipping in so quickly you'll catch everyone by surprise.

Message memories let you store contest call, name, QTH, rig info -- everything you used to repeat over and over.

You get iambic operation, automatic incrementing serial numbering, weight control to penetrate QRM and more.

More Features

Turn on your MFJ-1278 and it sets itself to match your computer baud rate. Select your operating mode and the correct modem is automatically selected.

Plus . . . printing in all modes, threshold control for varying band conditions, tune-up command, lithium battery backup, RS-232 and TTL level serial ports, watch dog timer, FSK and AFSK outputs, output level control, speaker jack, key paddle jack, test and calibration software, Z-80 at 4.9 MHz, 32K EPROM, and socketed ICs. FCC approved. 9x1½x9½ in. 12 VDC or 110 VAC.

Get yours today and join the fun crowd!

New Firmware Update

***A** new KISS/AMTOR/Navtex Firmware update is available to MFJ-1278 owners.

MFJ's powerful update is the most reasonably priced mulit-mode upgrade by any manufacturer. Contact your dealer or MFJ for yours today!

MFJ Packet Radio

MFJ-1274 **$149.95**

MFJ-1270B **$129.95**

MFJ-1270B super clone of TAPR's TNC-2 give you more features than *any* other packet controller -- for $129.95.

You can double your fun by operating both VHF *and* HF packet because you get **high performance** switchable VHF/HF modems.

You get the **Easy Mail™** Personal Mailbox with soft-partitioned memory so you and your ham buddies can leave messages for each other 24 hours a day.

In MFJ's new WeFAX mode you can print full fledged weather maps to screen or printer and save to disk using an IBM compatible or Macintosh computer with an MFJ Starter Pack.

A new **KISS** interface lets you run **TCP/IP.** They also come **NET ROM** compatible -- ***no modification needed!***

You also get 32K RAM, a one-year *unconditional* guarantee and you can use 12 VDC or the included 110 VAC power supply.

For dependable HF packet tuning, the **MFJ-1274** gives you a high resolution tuning indicator that's accurate to within 10 Hz -- and it's only $20.00 more. Add $5 each shipping/handling.

FOR YOUR NEAREST DEALER
or to order call toll free
800-647-1800
One Year Unconditional Guarantee

MFJ

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MFJ . . . making quality affordable